



Autoscope Solo[®] Terra[™] Interface Panel (TIP)

Description

The *Autoscope Solo Terra Interface Panel (TIP)* provides a robust *Autoscope EasyLink* connection point in the cabinet for communicating with Solo *Terra* video detection sensors. The *TIP* supports “3-wires-only” branch cable connections to the sensors, an interface to the *Autoscope Terra Access Point (TAP)* for outputs to traffic controllers, and a standard Ethernet connection for a laptop at the Traffic Control Center (TCC). The interface panel also protects other cabinet components from branch cable transients and surges, while making zoom set-up and sensor maintenance easily manageable directly from the cabinet.

EasyLink connectivity allows simple installation within the traffic cabinet and user-friendly integration into an agency’s Ethernet-based communications network. A standard CAT-5 cable connects the *TIP* into a network to view video, collect traffic data, and maintain the *Autoscope* system. *Terra Technology* products like the *Autoscope Solo Terra* sensor and *Terra Access Point Detector Port Master (DPM)* use Internet-standard, IP-based addressing with a unique Ethernet MAC address.

EasyLink connectivity means simple “3-wires-only” installation for the Solo *Terra* sensor to communicate digital video and data to the traffic cabinet. “3-wires-only” power cabling saves time and money by quickly installing with convenient compression blocks on the *TIP*.

The *TIP* communicates with up to eight *Autoscope Solo Terra* sensors via “Broadband-over-Power” (BoP) technology. This leading-edge, field-proven technology transmits video, supervisor communications, and detector port data over a standard “3-wires-only” power cable. The robust 14 Mb/sec-rated transceivers have a remarkable throughput of up to 6 Mb/sec more than sufficient to transmit traffic data, alarms, and MPEG-4 video simultaneously.

Benefits

- Efficient “3-wires-only” connectivity to *Autoscope Solo Terra* sensor
- Quick installation into any traffic control cabinet configuration
- Convenient integration into an Ethernet-based communications infrastructure
- Reduces maintenance time

Features

- Supports up to 8 *Autoscope Solo Terra* sensors and TAP
- RJ45 Ethernet connection for laptop or cabinet network
- High-voltage transient protection
- Power line isolation

Theory of Operation

The *TIP* supports *Autoscope EasyLink* communications with up to eight *Autoscope Solo Terra* sensors. It provides high-voltage transient protection, mechanical strain relief, “3-wires-only” power connections. The interface panel passes detection information from the *Autoscope* sensors to the *TAP DPM* for the traffic controller or cabinet. The *Autoscope Configuration Wizard*[®] makes detection set-up quick and easy.

The *TIP* is a highly integrated and optimized solution for networking *Solo Terra* sensors. It reliably delivers broadband exchanges in the challenging traffic communications environment and combats deep attenuation events, noise sources, and multi-path fading by adjusting to the variable

Signal to Noise Ratio (SNR). The system manages communications for dependable distribution of data packets and offers the high-bandwidth performance necessary to drive sophisticated traffic detection applications.

Applications

- Intersection detection
- Highway data collection
- Automatic incident detection
- Bridge, tollway, and tunnel management
- Work-zone safety and traffic control
- Traveler information systems
- Remote video surveillance

Connectors

- Input power: 3-position compression block
- *Autoscope Solo Terra* sensors power output: Four 3-position compression blocks
- TAP interface connector
- RJ45 connector for EasyLink

Power

- 5W
- 110/220 VAC, 50/60 Hz from line-filtered side of cabinet power supply
- 2 fuses

Environmental

- -29°F to +165°F (-34°C to +74°C)
- 0 to 95% relative humidity
- Up to 100% relative humidity per MIL-E-5400T paragraph 4.3.24.4

Dimensions and Weight

- 11 in. x 7 in. x 2 in. (28 cm x 18 cm x 5 cm)
- 1.7 lb (0.8 kg) on standard sheet metal panel

Indicators

- LED indicator for Ethernet link/activity
- Ready-power LED
- LED indicators for local network link, activity, and error status

Options

- DIN rail mount

Warranty

- Three-year warranty
- Extended warranty package to six years

Regulatory

- NEMA TS2 Compliant
- CE EN 55022
- EN 61000-6-1
- CE EN 60950
- FCC Part 15, Class A

Product Support

- Product support and training by a team of factory-trained *Autoscope* Technical Support Specialists

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